

IN THE ABSTRACT

Please delete the abstract of the disclosure presently on file and substitute the following:

A differential pressure system and a gas meter arrangement for precisely measuring a gas consumption by a gas meter is provided. A previously known gas meter is disposed in a bypass comprising a differential pressure system in the gas pipe for measuring a volumetric flow rate inside the gas pipe. The differential pressure system includes flow ducts having decreasing diameters as the radial position increases starting from a central axis of the differential pressure system. Examples of execution include Inlet ports and/or outlet ports of the flow ducts which are provided with a specific countersink angle (α), and an equidistant, concentric arrangement of flow ducts on the cross-sectional area of the differential pressure system. This has the advantage of increasing the differential pressure at a low volume flow rate, reducing the differential pressure at a high volume flow rate, and generally creating an improved linearity across the entire measurement range between the volume flow rate in the bypass and the volume flow rate in the gas pipe, among other advantages.